

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company

NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

IAS-ANZ



Job No.: CQCE/BBMP/CR/17/2021-2022

Date: 22.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, R R Nagar Division, BBMP, Bangalore.
Agency : Sri. T Chandrashekhara Reddy, Contractor, Bangalore.
Name of the work : Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP,
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₅
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	26.04.2021	22.05.2021	8.202	375.5	16.69
2	26.04.2021	22.05.2021	8.140	364.1	16.18
3	26.04.2021	22.05.2021	8.065	359.9	16.00

Note:

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಜಿಲ್ಲಾತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorized Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail: civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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Job No.: CQCE/BBMP/CR/17/2021-2022

Date: 07.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, R R Nagar Division, BBMP, Bangalore.
Agency : Sri. T Chandrashekhar Reddy, Contractor, Bangalore.
Name of the work : Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP,
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₅
Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	10.05.2021	07.06.2021	8.202	364.4	16.20
2	10.05.2021	07.06.2021	8.150	359.9	16.00
3	10.05.2021	07.06.2021	8.056	369.1	16.40

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Job No: CQCE/BBMP/CR/17/2021-2022

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Agency : Sri. T Chandrashekhara Reddy, Contractor, Bangalore.
Name of the work : Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP,
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₅
Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	10.05.2021	07.06.2021	8.066	365.5	16.24
2	10.05.2021	07.06.2021	8.021	349.9	15.55
3	10.05.2021	07.06.2021	8.085	358.1	15.92

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Agency : Sri. T Chandrashekhar Reddy, Contractor, Bangalore.
Name of the work : Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP,
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₅
Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	10.05.2021	07.06.2021	8.202	365.5	16.24
2	10.05.2021	07.06.2021	8.154	349.9	15.55
3	10.05.2021	07.06.2021	8.099	360.1	16.00

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CQCE/BBMP/CR/17/2021-2022

Date: 22.04.2021

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : Executive Engineer, R R Nagar Division, BBMP, Bangalore.
Contractor : Sri. T Chandrashekhar Reddy, Contractor, Bangalore.
Name of Work : Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP, Bangalore
No. of Sample Tested : 03
Date of Testing : 22.04.2021
Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete : M₂₀

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	80.00	0.362	2304.56	1.60	0.957	36.20	18.44	19.91	19.05	23.81
2	50.00	80.00	0.369	2349.13	1.60	0.957	32.70	16.65	17.99	17.21	21.51
3	50.00	80.00	0.353	2247.27	1.60	0.957	33.80	17.21	18.59	17.79	22.24

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Job No.:

CQCE/BBMP/CR/17/2021-2022

Date : 14.04.2021

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : Executive Engineer, R R Nagar Division, BBMP, Bangalore.
Agency : Sri. T Chandrashekhara Reddy, Contractor, Bangalore.
Name of the Work : Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP, Bangalore
Date of Testing : 14.04.2021
Size of Blocks : 400mm x 150mm x 200mm
Cross Sectional Area : 60000 mm²
Technical Reference : IS: 2185 (Part 1) - 2005
No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Block Density in Kg/M ³	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	24.6	215.9	3.60	2050.00	Minimum required Compressive Strength of Individual Units 3.5N/mm ²
2	Block 2	23.3	225.5	3.76	1941.67	
3	Block 3	24.8	263.3	4.39	2066.67	
4	Block 4	22.3	243.3	4.06	1858.33	

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CQCE/BBMP/CR/17/2021-2022

Date 03.05.2021

GRADATION FOR WMM

Client
Agency
Name of Work
IS Code:
Date of Testing
Material Type

: Executive Engineer, R R Nagar Division, BBMP, Bangalore.
: Sri. T Chandrashekhar Reddy, Contractor, Bangalore.
Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP, Bangalore
:IS 2386 (Part 1):1963(RA 2011)
03.05.2021
: Wet Mix Macadam

Oven Dry.Wt, gram 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	212	212	2.1	97.9	95-100
22.4	2512	2724	27.2	72.8	60-80
11.2	2056	4780	47.8	52.2	40-60
4.75	1825	6605	66.1	34.0	25-40
2.36	1142	7747	77.5	22.5	15-30
0.600	565	8312	83.1	16.9	8-22
0.075	1320	9632	96.3	3.7	0-5

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Date: 03.05.2021

Aggregate Impact Value

Client	: Executive Engineer, R R Nagar Division, BBMP, Bangalore.
Agency	: Sri. T Chandrashekhar Reddy, Contractor, Bangalore.
Name of the Work	Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP, Bangalore
IS Code:	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	03.05.2021

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	385	385	22.08
2	Weight of aggregate passing 2.36 mm sieve after the test = W_2 g	82	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	303	297	
4	Aggregate Impact value = percent fines $100 * (W_2/W_1)\%$	21.30	22.86	

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specification table 400.12)

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03.05.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: Executive Engineer, R R Nagar Division, BBMP, Bangalore.
Agency	: Sri. T Chandrashekhara Reddy, Contractor, Bangalore.
Name of Work	Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP, Bangalore
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	03.05.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.8	12.3	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	10.1	11.5	
	Combined Flakiness & Elongation index	21.90	23.8	

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Job No.:

CQCE/BBMP/CR/17/2021-2022

Date 05.05.2021

ATTERBERG LIMITS TEST FOR WMM

Client : Executive Engineer, R R Nagar Division, BBMP, Bangalore.
Agency : Sri. T Chandrashekhar Reddy, Contractor, Bangalore.
Name of Work : Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP, Bangalore
IS Code: IS 2720(Part 5):1985
Date of Testing 03.05.2021 to 05.05.2021
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₅
Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	26.04.2021	03.05.2021	8.163	251.8	11.19
2	26.04.2021	03.05.2021	8.184	244.9	10.88
3	26.04.2021	03.05.2021	8.141	265.8	11.81

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	26.04.2021	03.05.2021	8.025	267.5	11.89
2	26.04.2021	03.05.2021	8.057	291.4	12.95
3	26.04.2021	03.05.2021	8.098	252.7	11.23

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17.05.2021

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Client : Executive Engineer, R R Nagar Division, BBMP, Bangalore.
Agency : Sri. T Chandrashekhhar Reddy, Contractor, Bangalore.
Name of the work : Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP, Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₅
Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	10.05.2021	17.05.2021	8.019	260.3	11.57
2	10.05.2021	17.05.2021	8.036	252.2	11.21
3	10.05.2021	17.05.2021	8.054	239.7	10.65

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಜ್ಯೋತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company

NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory



Job No.: CQCE/BBMP/CR/17/2021-2022

Date:

17.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, R R Nagar Division, BBMP, Bangalore.
Agency : Sri. T Chandrashekhara Reddy, Contractor, Bangalore.
Name of the work : Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP, Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₅
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	10.05.2021	17.05.2021	8.192	259.9	11.55
2	10.05.2021	17.05.2021	8.174	271.4	12.06
3	10.05.2021	17.05.2021	8.133	236.9	10.53

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Job No.: CQCE/BBMP/CR/17/2021-2022

Date: 22.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, R R Nagar Division, BBMP, Bangalore.
Agency : Sri. T Chandrashekhara Reddy, Contractor, Bangalore.
Name of the work : Providing Asphalt works at Selected reaches in ward no 17 Phase-01, BBMP, Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₁₅
Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	26.04.2021	22.05.2021	8.082	361.8	16.08
2	26.04.2021	22.05.2021	8.096	394.4	17.53
3	26.04.2021	22.05.2021	8.068	380.1	16.89

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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